

Seq  
SEQUENCE LISTING

<110> KURUME UNIVERSITY

<120> Epidermal growth factor receptor (EGFR)-derived peptides

<130> 665024

<150> JP 2004-015676

<151> 2004-01-23

<160> 6

<170> PatentIn Ver. 2.1

<210> 1

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> EGFR-derived peptide at position 800-809.

<400> 1

Asp Tyr Val Arg Glu His Lys Asp Asn Ile  
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<210> 2

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> EGFR-derived peptide at position 124-132.

<400> 2

Asn Tyr Asp Ala Asn Lys Thr Gly Leu  
1 5 9

<210> 3

<211> 9

<212> PRT

<213> Artificial Sequence

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<223> EGFR-derived peptide at position 54-62.

<400> 3

Met Phe Asn Asn Cys Glu Val Val Leu  
1 5 9

<210> 4

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> EGFR-derived peptide at position 479-488.

## Seq

&lt;400&gt; 4

Lys Leu Phe Gly Thr Ser Gly Gln Lys Thr  
1 5 10

&lt;210&gt; 5

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; EGFR-derived peptide at position 1138-1147.

&lt;400&gt; 5

Tyr Leu Asn Thr Val Gln Pro Thr Cys Val  
1 5 10

&lt;210&gt; 6

&lt;211&gt; 1210

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6

Met Arg Pro Ser Gly Thr Ala Gly Ala Ala Leu Leu Ala Leu Leu Ala  
1 5 10 15Ala Leu Cys Pro Ala Ser Arg Ala Leu Glu Glu Lys Lys Val Cys Gln  
20 25 30Gly Thr Ser Asn Lys Leu Thr Gln Leu Gly Thr Phe Glu Asp His Phe  
35 40 45Leu Ser Leu Gln Arg Met Phe Asn Asn Cys Glu Val Val Leu Gly Asn  
50 55 60Leu Glu Ile Thr Tyr Val Gln Arg Asn Tyr Asp Leu Ser Phe Leu Lys  
65 70 75 80Thr Ile Gln Glu Val Ala Gly Tyr Val Leu Ile Ala Leu Asn Thr Val  
85 90 95Glu Arg Ile Pro Leu Glu Asn Leu Gln Ile Ile Arg Gly Asn Met Tyr  
100 105 110Tyr Glu Asn Ser Tyr Ala Leu Ala Val Leu Ser Asn Tyr Asp Ala Asn  
115 120 125Lys Thr Gly Leu Lys Glu Leu Pro Met Arg Asn Leu Gln Glu Ile Leu  
130 135 140His Gly Ala Val Arg Phe Ser Asn Asn Pro Ala Leu Cys Asn Val Glu  
145 150 155 160Ser Ile Gln Trp Arg Asp Ile Val Ser Ser Asp Phe Leu Ser Asn Met  
165 170 175Ser Met Asp Phe Gln Asn His Leu Gly Ser Cys Gln Lys Cys Asp Pro  
180 185 190Ser Cys Pro Asn Gly Ser Cys Trp Gly Ala Gly Glu Glu Asn Cys Gln  
195 200 205

## Seq

Lys	Leu	Thr	Lys	Ile	Ile	Cys	Ala	Gln	Gln	Cys	Ser	Gly	Arg	Cys	Arg
	210					215					220				
Gly	Lys	Ser	Pro	Ser	Asp	Cys	Cys	His	Asn	Gln	Cys	Ala	Ala	Gly	Cys
225					230					235					240
Thr	Gly	Pro	Arg	Glu	Ser	Asp	Cys	Leu	Val	Cys	Arg	Lys	Phe	Arg	Asp
				245					250					255	
Glu	Ala	Thr	Cys	Lys	Asp	Thr	Cys	Pro	Pro	Leu	Met	Leu	Tyr	Asn	Pro
			260					265					270		
Thr	Thr	Tyr	Gln	Met	Asp	Val	Asn	Pro	Glu	Gly	Lys	Tyr	Ser	Phe	Gly
		275					280					285			
Ala	Thr	Cys	Val	Lys	Lys	Cys	Pro	Arg	Asn	Tyr	Val	Val	Thr	Asp	His
	290					295					300				
Gly	Ser	Cys	Val	Arg	Ala	Cys	Gly	Ala	Asp	Ser	Tyr	Glu	Met	Glu	Glu
305					310					315					320
Asp	Gly	Val	Arg	Lys	Cys	Lys	Lys	Cys	Glu	Gly	Pro	Cys	Arg	Lys	Val
				325					330					335	
Cys	Asn	Gly	Ile	Gly	Ile	Gly	Glu	Phe	Lys	Asp	Ser	Leu	Ser	Ile	Asn
			340					345					350		
Ala	Thr	Asn	Ile	Lys	His	Phe	Lys	Asn	Cys	Thr	Ser	Ile	Ser	Gly	Asp
		355					360					365			
Leu	His	Ile	Leu	Pro	Val	Ala	Phe	Arg	Gly	Asp	Ser	Phe	Thr	His	Thr
	370					375					380				
Pro	Pro	Leu	Asp	Pro	Gln	Glu	Leu	Asp	Ile	Leu	Lys	Thr	Val	Lys	Glu
385					390					395					400
Ile	Thr	Gly	Phe	Leu	Leu	Ile	Gln	Ala	Trp	Pro	Glu	Asn	Arg	Thr	Asp
				405					410					415	
Leu	His	Ala	Phe	Glu	Asn	Leu	Glu	Ile	Ile	Arg	Gly	Arg	Thr	Lys	Gln
			420					425					430		
His	Gly	Gln	Phe	Ser	Leu	Ala	Val	Val	Ser	Leu	Asn	Ile	Thr	Ser	Leu
		435					440					445			
Gly	Leu	Arg	Ser	Leu	Lys	Glu	Ile	Ser	Asp	Gly	Asp	Val	Ile	Ile	Ser
	450					455					460				
Gly	Asn	Lys	Asn	Leu	Cys	Tyr	Ala	Asn	Thr	Ile	Asn	Trp	Lys	Lys	Leu
465					470					475					480
Phe	Gly	Thr	Ser	Gly	Gln	Lys	Thr	Lys	Ile	Ile	Ser	Asn	Arg	Gly	Glu
				485					490					495	
Asn	Ser	Cys	Lys	Ala	Thr	Gly	Gln	Val	Cys	His	Ala	Leu	Cys	Ser	Pro
			500					505					510		
Glu	Gly	Cys	Trp	Gly	Pro	Glu	Pro	Arg	Asp	Cys	Val	Ser	Cys	Arg	Asn
		515					520					525			
Val	Ser	Arg	Gly	Arg	Glu	Cys	Val	Asp	Lys	Cys	Lys	Leu	Leu	Glu	Gly
	530					535					540				

## Seq

Glu 545	Pro	Arg	Glu	Phe 550	Val	Glu	Asn	Ser	Glu	Cys 555	Ile	Gln	Cys	His	Pro 560
Glu	Cys	Leu	Pro	Gln 565	Ala	Met	Asn	Ile	Thr 570	Cys	Thr	Gly	Arg	Gly 575	Pro
Asp	Asn	Cys	Ile 580	Gln	Cys	Ala	His	Tyr 585	Ile	Asp	Gly	Pro	His 590	Cys	Val
Lys	Thr	Cys 595	Pro	Ala	Gly	Val	Met 600	Gly	Glu	Asn	Asn	Thr 605	Leu	Val	Trp
Lys	Tyr 610	Ala	Asp	Ala	Gly	His 615	Val	Cys	His	Leu	Cys 620	His	Pro	Asn	Cys
Thr 625	Tyr	Gly	Cys	Thr	Gly 630	Pro	Gly	Leu	Glu	Gly 635	Cys	Pro	Thr	Asn	Gly 640
Pro	Lys	Ile	Pro	Ser 645	Ile	Ala	Thr	Gly	Met 650	Val	Gly	Ala	Leu	Leu 655	Leu
Leu	Leu	Val	Val 660	Ala	Leu	Gly	Ile	Gly 665	Leu	Phe	Met	Arg	Arg 670	Arg	His
Ile	Val	Arg 675	Lys	Arg	Thr	Leu	Arg 680	Arg	Leu	Leu	Gln	Glu 685	Arg	Glu	Leu
Val	Glu 690	Pro	Leu	Thr	Pro	Ser 695	Gly	Glu	Ala	Pro	Asn 700	Gln	Ala	Leu	Leu
Arg 705	Ile	Leu	Lys	Glu	Thr 710	Glu	Phe	Lys	Lys	Ile 715	Lys	Val	Leu	Gly	Ser 720
Gly	Ala	Phe	Gly	Thr 725	Val	Tyr	Lys	Gly	Leu 730	Trp	Ile	Pro	Glu	Gly 735	Glu
Lys	Val	Lys	Ile 740	Pro	Val	Ala	Ile	Lys 745	Glu	Leu	Arg	Glu	Ala 750	Thr	Ser
Pro	Lys	Ala 755	Asn	Lys	Glu	Ile	Leu 760	Asp	Glu	Ala	Tyr	Val 765	Met	Ala	Ser
Val	Asp 770	Asn	Pro	His	Val	Cys 775	Arg	Leu	Leu	Gly	Ile 780	Cys	Leu	Thr	Ser
Thr 785	Val	Gln	Leu	Ile	Thr 790	Gln	Leu	Met	Pro	Phe 795	Gly	Cys	Leu	Leu	Asp 800
Tyr	Val	Arg	Glu	His 805	Lys	Asp	Asn	Ile	Gly 810	Ser	Gln	Tyr	Leu	Leu 815	Asn
Trp	Cys	Val	Gln 820	Ile	Ala	Lys	Gly	Met 825	Asn	Tyr	Leu	Glu	Asp 830	Arg	Arg
Leu	Val	His 835	Arg	Asp	Leu	Ala	Ala 840	Arg	Asn	Val	Leu	Val 845	Lys	Thr	Pro
Gln	His 850	Val	Lys	Ile	Thr	Asp 855	Phe	Gly	Leu	Ala	Lys 860	Leu	Leu	Gly	Ala
Glu 865	Glu	Lys	Glu	Tyr	His 870	Ala	Glu	Gly	Gly	Lys 875	Val	Pro	Ile	Lys	Trp 880

## Seq

Met Ala Leu Glu Ser<sub>885</sub> Ile Leu His Arg Ile<sub>890</sub> Tyr Thr His Gln Ser<sub>895</sub> Asp  
 Val Trp Ser Tyr<sub>900</sub> Gly Val Thr Val Trp<sub>905</sub> Glu Leu Met Thr Phe<sub>910</sub> Gly Ser  
 Lys Pro Tyr<sub>915</sub> Asp Gly Ile Pro Ala<sub>920</sub> Ser Glu Ile Ser Ser<sub>925</sub> Ile Leu Glu  
 Lys Gly<sub>930</sub> Glu Arg Leu Pro Gln<sub>935</sub> Pro Pro Ile Cys Thr<sub>940</sub> Ile Asp Val Tyr  
 Met Ile Met Val Lys Cys<sub>950</sub> Trp Met Ile Asp Ala<sub>955</sub> Asp Ser Arg Pro Lys<sub>960</sub>  
 Phe Arg Glu Leu Ile<sub>965</sub> Ile Glu Phe Ser Lys<sub>970</sub> Met Ala Arg Asp Pro Gln<sub>975</sub>  
 Arg Tyr Leu Val<sub>980</sub> Ile Gln Gly Asp Glu<sub>985</sub> Arg Met His Leu Pro<sub>990</sub> Ser Pro  
 Thr Asp Ser<sub>995</sub> Asn Phe Tyr Arg Ala<sub>1000</sub> Leu Met Asp Glu<sub>1005</sub> Glu Asp Met Asp  
 Asp Val<sub>1010</sub> Val Asp Ala Asp Glu<sub>1015</sub> Tyr Leu Ile Pro Gln<sub>1020</sub> Gln Gly Phe Phe  
 Ser Ser Pro Ser Thr Ser<sub>1030</sub> Arg Thr Pro Leu Leu<sub>1035</sub> Ser Ser Leu Ser Ala<sub>1040</sub>  
 Thr Ser Asn Asn Ser<sub>1045</sub> Thr Val Ala Cys Ile<sub>1050</sub> Asp Arg Asn Gly Leu Gln<sub>1055</sub>  
 Ser Cys Pro Ile<sub>1060</sub> Lys Glu Asp Ser Phe<sub>1065</sub> Leu Gln Arg Tyr Ser<sub>1070</sub> Ser Asp  
 Pro Thr Gly<sub>1075</sub> Ala Leu Thr Glu Asp Ser Ile Asp Asp Thr<sub>1085</sub> Phe Leu Pro  
 Val<sub>1090</sub> Pro Glu Tyr Ile Asn Gln<sub>1095</sub> Ser Val Pro Lys Arg<sub>1100</sub> Pro Ala Gly Ser  
 Val Gln Asn Pro Val Tyr<sub>1110</sub> His Asn Gln Pro Leu<sub>1115</sub> Asn Pro Ala Pro Ser<sub>1120</sub>  
 Arg Asp Pro His Tyr<sub>1125</sub> Gln Asp Pro His Ser<sub>1130</sub> Thr Ala Val Gly Asn Pro<sub>1135</sub>  
 Glu Tyr Leu Asn Thr Val Gln Pro Thr Cys Val Asn Ser Thr<sub>1150</sub> Phe Asp  
 Ser Pro Ala His Trp Ala Gln Lys<sub>1160</sub> Gly Ser His Gln Ile<sub>1165</sub> Ser Leu Asp  
 Asn Pro Asp Tyr Gln Gln Asp Phe Phe Pro Lys Glu<sub>1180</sub> Ala Lys Pro Asn  
 Gly Ile Phe Lys Gly Ser Thr Ala Glu Asn Ala<sub>1195</sub> Glu Tyr Leu Arg Val<sub>1200</sub>  
 Ala Pro Gln Ser Ser<sub>1205</sub> Glu Phe Ile Gly Ala<sub>1210</sub>